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CDS 101, Lecture 1.1





CDS 101, Lecture 1.1











 SIMULINK Control System Neural Network Data Acquisition Optimization Fuzzy Logic Robust Control
Robust Control
 Instrument Control Signal Processing LMI Control Statistics Model Predictive Control System Identification
 µ-Analysis and Synthesis

Wk	Mon/Wed	Fri
1	Introduction to Feedback and Control	MATLAB tutorial, Steve W.
2	System Modeling	Linear algebra/ODE review, Steve W.
3	Stability and Performance	Control of cavity oscillations, T. Colonius
4	Linear Systems	Internet Congestion Control, S. Low
5	Controllability and Observability Midterm exam	Review for midterm, Steve W.
6	Transfer Functions	Piloted flight, D. McRuer (tentative)
7	Loop Analysis of Feedback Systems	Stability in Electronic Circuits, A. Hajimiri
8	Frequency Domain Design	Molecular Feedback Mechanisms, A. Asthagiri
9	Limits on Performance	Thanksgiving holiday
10	Uncertainty Analysis and Robustness Final exam	Review for final, TBD

